



A 47 year-old man with a past medical history of diabetes mellitus and hypertension only, presented with an illness for one week with general body aches, rigors, decreased effort-tolerance, dyspnoea, and no syncope or palpitations. On examination he was ill: febrile, pulse rate 60, BP 100/40, JVP elevated with cannon waves, 2/6 ejection systolic murmur and 2/4 early diastolic murmur along the left sternal margin. The ECG was done on arrival.

**QUESTION: Which ONE of the following is the correct ECG diagnosis?**

- (a) Sinus rhythm with first degree heart block;
- (b) Sinus rhythm with blocked atrial premature beats/atrial bigeminy;
- (c) Mobitz I (Wenckebach) second degree AV block;
- (d) Mobitz 2 second degree AV block;
- (e) Atrial or sinus tachycardia with 2:1 second degree AV block; or
- (f) Complete AV heart block?

Please analyse the ECG carefully and commit yourself to an answer before checking the explanation.

**ANSWER** on page 288